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WELCOME SPEECH

Forewords from the Head of Committee

Assalamu Alaikum Warahmatullahi Wabarakatuh.

The honourable, Rector of Universitas Negeri Makassar (UNM) and all Vice Rectors, the Dean of Mathematics and Natural Sciences Faculty and all Vice Deans, all invited Speakers and Participants.

First of all, let us praise and thank to Allah Subhana Wata'ala, because his Blessings and Helpings, we are able to gather here to attend this conference.

Second, I would like to give our welcome to all delegates, speakers, and participants coming today in The Second International Conference on Statistics, Mathematics, Teaching and Research 2017 (2nd ICSMTR-2017) "Advanced Research for Statistics, Mathematics, Sciences and Education for Enhancing International Publications" organized by Mathematics and Natural Sciences Faculty, UNM.

This conference is conducted in two days from 9th to 10th of October 2017 in Grand Clarion Hotel Makassar. It involves: a keynote speaker, six invited speakers and approximately 300 parallel speakers coming from the West to East Indonesia and several countries.

Ladies and gentleman as, I previously said, the conference proudly invites keynote speaker and six invited speakers coming from several countries. Therefore, on behalf of the committee, I would like to express my sincere thanks to them, specifically: 1) Directorate General of Research and Development Strengthening, Ministry of Research, Technology, and Higher Education; 2) Prof. M. Shaheed Hartley (University of Western Cape, South Africa); 3) Prof. Ahmed A. Bahnassy (King Fahd Medical City, Saudi Arabia); 4) Prof. Madya Dr. Ahmad Johari Bin Sihes (Universiti Teknologi Malaysia, Malaysia); 5) Prof. Dr. Khairil Anwar Notodiputro, MS (Bogor Agricultural University, Indonesia); 6) Abbas Panakkal, Ph.D (Ma'din Academy Research Center and International Study, India); 7) Prof. Hamzah Upu, M.Ed. (Universitas Negeri Makassar, Indonesia) and 8) Prof. Muhammad Arif Tiro, Ph.D. (Universitas Negeri Makassar, Indonesia).

Next, I would like thanks to all sponsors and also thanks to all organizing committee who have been showing very good work and determination for the accomplishment of this conference. All of them working since the beginning of the planning stage and they are still here today for all of us, even though, they are very busy with their personal responsibilities.

On this occasion, I would like to apologize to all of you when there are some inconvenience during the conference.

Finally, I would like thanks to the speakers and participants listed in the 2nd ICSMTR 2017. Have a nice conference and also that you have a very pleasant stay in Makassar city. Thank you very much for attention. Assalamu Alaikum Warahmatullahi Wabarakatuh.

Head of Committee,

Prof. Dr. Syafruddin Side, M.Si.



**Forewords from the Dean of Mathematics and Natural Sciences Faculty,
Universitas Negeri Makassar**

Your excellency Rector of Universitas Negeri Makassar
Honourable Vice Rectors and Dean of All Faculties
Honorable Keynote Speakers
Distinguished all invited speakers from outstanding universities
Distinguished all speakers and guests
All participants,
Ladies & Gentlement,

Assalamu'alaykum Warahmatullahi Wabarakatuh. My greetings for all of you. May peace and God's blessing be upon us all. *Alhamdulillah*, all praises be to the Almighty God, Allah *subhanahu wata'ala*.

It is my pleasure to welcome you all to the opening of The 2nd International Conference on Statistics, Mathematics, Teaching, and Research (2nd ICSMTR). I am delighted to see that the Mathematics and Natural Sciences Faculty has again organized the second conference that capitalize on our strength and built on our commitment to promoting Mathematics, Science, Teaching and Research.

I do hope that this conference would bring a great opportunity for all of us to strengthen our contribution to the advancement of our nation.

I would like to take this opportunity to thank the conference organizing committee for their diligent work. I would also like to thank participants, especially those of you coming from abroad, for joining us and sharing your valuable experiences. Should you find any inconveniences and shortcomings, please accept our sincere apologies.

Finally, let me wish you fruitful discussion and a very pleasant stay in Makassar.

Thank you,
Wassalamu'alaykum Warahmatullahi Wabarakatuh

Dean of Faculty of Mathematics and Natural Sciences
Universitas Negeri Makassar

Prof. Dr. Abdul Rahman, M.Pd.

Forewords from Rector of UNM

Bismillahirrahmanirrahim

Assalamu'alaikum Warahmatullahi Wabarakatuh

Your respectable, the high officials of State University of Makassar, the committee, the speakers, and the participants of conference.

It gives me great pleasure to extend to you all a very warm welcome, especially to our keynote and invited speakers who have accepted our invitation to convene the conference. ICSMTR is one of our educational activities that covers a wide range of very interesting items relating to statistics, mathematics, teaching and research.

By taking participation of this conference, it is highly expected to all of us to share our research findings to society and continuously develop new ideas and knowledge. Those things are two significant steps in improving the quality of nations around the world, increasing our familiarity to each other, and even avoiding underdevelopment.

Furthermore, I would like to take this opportunity to express my heartfelt gratitude to all organizing committee for Faculty of Mathematics and Natural Sciences that primarily hosts this conference.

Finally, this is a great time for me to declare the official opening of the International Conference on Statistics, Mathematics, Teaching, and Research (ICSMTR) 2017.

I wish you a very enjoyable stay in Makassar

I warmly welcome you again, as in Makassar, we say “salamakki battu ri mangkasara”

Wassalamu'alaikum Warahmatullahi Wabarakatuh.

Prof. Dr. Husain Syam, M.TP

Rector of Universitas Negeri Makassar

CONFERENCE SCHEDULE**The 2nd ICSMTR**

Faculty of Mathematics and Natural Sciences
Universitas Negeri Makassar

Clarion Hotel, Makassar, Indonesia, 9 – 10 October 2017

Day 1: Monday, 9 October 2017		
07.00 – 08.00	Registration	Jasmine Hall
08.00 – 09.00	Opening Ceremony Traditional Dance Doa National Anthem: Indonesia Raya Welcome speech: a. Head of Committee Prof. Dr. Syafruddin Side, M.Si. b. Dean of Math & Natural Sciences Faculty Prof. Dr. Abdul Rahman, M.Pd. c. Rector of Universitas Negeri Makassar Prof. Dr. Husain Syam, M.TP.	Jasmine Hall
09.00 – 09.45	Keynote Speaker Directorate General of Research and Development Strengthening, Ministry of Research, Technology, and Higher Education	Jasmine Hall
09.45 – 10.00	Coffee Break	Jasmine Hall
10.00 – 12.00	Invited Speakers 1. Prof. M. Shaheed Hartley, Ph.D. 2. Prof. Dr. Hamzah Upu, M.Ed. 3. Prof. Madya Dr. Ahmad Johari Bin Sihes	Jasmine Hall
12.00 – 13.00	Lunch & Pray	
13.00 – 15.30	Parallel Sesion 1	Parallel Rooms
15.30 – 16.00	Coffee Break	Parallel Rooms
16.00 – 18.00	Parallel Session 2	Parallel Rooms
Day 2: Tuesday, 10 October 2017		
08.00 – 10.00	Invited Speakers 1. Prof. Dr. Khairil Anwar Notodiputro, M.S 2. Prof. Ahmed A. Bahnassy, Ph.D. 3. Prof. Muhammad Arif Tiro, Ph.D. 4. Abbas Panakkal, Ph.D.	Jasmine Hall
10.00 – 10.10	Coffee Break	Jasmine Hall
10.10 – 11.30	Parallel Session 3	Parallel Rooms
11.30 – 12.00	Closing Ceremony	Jasmine Hall
12.00 – 13.00	Lunch & Pray	
13.00 – End	City Tour	

INVITED SPEAKER SESSION

Day 1: Monday, 9 October 2017		
10.00 – 12.00	Professor M.Shaheed Hartley, Ph.D. University of Western Cape, South Africa <i>Training, supervision and mentorship on a professional development journey from 2010 to 2017: A reflection by students and supervisors</i>	Jasmine Hall
	Professor Dr. Hamzah Upu, M.Ed. Universitas Negeri Makassar, Indonesia <i>The Effectiveness of Mathematics Learning Packages Based on Bilingual Approach.</i>	
	Professor Madya Dr. Ahmad Johari Bin Sihes Universiti Technology Malaysia, Malaysia <i>Transformation of Higher Education Curriculum to Meet the 4th Industrial Revolution Challenges</i>	
Day 2: Tuesday, 10 October 2017		
08.00 – 10.00	Professor Dr. Khairil Anwar Notodiputro, M.S Bogor Agricultural University, Indonesia	Jasmine Hall
	Professor Ahmed A. Bahnassy, Ph.D. King Fahd Medical City, Saudi Arabia	
	Professor Muh. Arif Tiro, Ph.D. Universitas Negeri Makassar, Indonesia <i>National Movement for Statistical Literacy in Indonesia: An idea.</i>	
	Abbas Panakkal, Ph.D. Ma'din Academy Research Center, India <i>Technological Trajectories and Epistemological Paradigms in Social Science Researches.</i>	

INVITED SPEAKERS' ABSTRACTS**Training, Supervision and Mentorship on a Professional Development Journey from 2010 to 2017: A Reflection by Students and Supervisors**

Shaheed Hartley

*Science Learning Centre for Africa, University of the Western Cape, South Africa***Abstract**

The poor results of learners in the high school exit examinations have been a point of debate for many years in South Africa. The negative cycle of science and mathematics outcomes by learners are compounded by many national and international benchmark tests conducted over the past 20 years which describe a dire view of the country's education system. In attempt to address this challenge, many of the provinces in the country have advanced a number of strategies in this regard. This study represents one of the interventions that the education department of the Eastern Cape Province implemented. The Science Learning Centre of the University of the Western Cape was invited to provide training to their science teachers in the form of a structured course called Advanced Certificate in Education (ACE) conducted on a part-time basis in 2010 and 2011. The course was directed at improving teachers' content knowledge, pedagogical strategies and practical and experimental skills. A total of 41 of the original 50 science teachers completed the course. As part of their continuous professional development, 31 science teachers enrolled for BEd Hons in science education in 2013 and 29 of them completed the course in 2014. These students graduated in 2015. Of the 29 BEd Hons students who completed the course 25 registered for Masters in Science Education and were joined by an additional 2 students. This paper reflects on the training, supervision and mentorship provided to educators as students of science education. The growth and development of students through their own reflection and understanding as well as through the eyes of the lecturers and supervisors that took part in the training provide the evaluation of the professional development process over the past few years. This study attempts to identify the merits, challenges and limitations of this project and the lessons to be learnt on such projects.

The Effectiveness of Mathematics Learning Packages Based on Bilingual Approach

Hamzah Upu

*Mathematics Department, Faculty of Mathematics and Science, State University of Makassar,
hamzahupu@gmail.com*

Abstract

The specific targets of this research were to produce; (1) Student book (SB), (2) Student Worksheet (SW), (3) Lesson Plan (LP) and to (4) Know their effectiveness of learning packages themselves. The development design of the packages was the modification and adaptation of Four-D model (Thiagarajan, 1974), which is encompassing four phases namely; Define, Design, Develop, and Disseminate. The criteria, used as the references of Bilingual Method, refers to; (1) Indonesian Qualification Framework (IQF), based on President Regulation No. 20/2012, (2) English as a language, in which the packages were made, (3) The validators are native speakers, (4) The structure of the learning packages, which can lead students' paradigm, insight, and knowledge to worldwide things. The research finds that: (1) Quantitatively, the learning packages are generally effective to improve students' achievement, specifically shown by the increase of students' grade from the pretest to posttest as many as 8.16 in 100-grading scale and, (2) Qualitatively; (a) the development SB emphasizes on three facets namely; the clarity and the structure of the content, the language, and the problem solving, (b) The development of SW emphasizes on three primary aspects namely; the task direction, the order of the task, and the language (c) The development of LP emphasizes on four primary aspects: formulation of basic competency, time allocation, learning material, and its structure.

Keywords: Effectiveness, Learning Packages, International Standard

Transformation of Higher Education Curriculum to Meet the 4th Industrial Revolution Challenges

Professor Madya Dr. Ahmad Johari Bin Sihes

Universiti Technology Malaysia, Malaysia

Abstract

A significant change in human life over the past 100 years has been a challenge to the world of education. The changing educational landscape witnessed some important trends such as the development of postgraduate higher education level, diversity of students and continental cross-movements in search and expanding knowledge. Education, as a whole, also impressed with the end of the 20th century and the beginning of the 21st Century. The long-standing university in power and the expansion of knowledge has been suggested to act swiftly to take account of major changes. This is necessary to make higher education more relevant to provide the necessary human capital in the future. Current education is seen as something that does not meet the needs of the job. The need to take into account the various perspectives in the curriculum is an approach that is often addressed in discussions and studies in relation to the present curriculum. The 21st Century Learning has been suggested as a result of educators, educators and industry experts in identifying the skills needed to succeed in life, employment and support systems that should be the core of learning outcomes. The Future of Jobs report estimates that more than 1/3 of the jobs considered important today will change over the next five years. Advanced robotics and automated transport, artificial intelligence and advanced materials, biotechnology and genomics are a revolution in life. The advanced development that transforms lifestyle will create unexpected jobs and eliminate today's popular career. This change will have a profound impact on higher education. The rapid movement and development of knowledge has transformed teaching and learning. And this is expected to be more serious when the world is facing a rapid change in technology. Automation in the workplace will make the skills of automated assisted and system-assisted work critical regardless of any job field. The Phenomenon of the 4th Industrial Revolution is seen to give a greater challenge to higher education. In this regard, education needs to be able to produce individuals capable of exploring and possessing sophisticated analysis and even solving complex problems. At the same time, higher education needs more flexibility and innovation to enable lifelong learning. Higher education in the 4th Industrial Revolution (4IR) is seen as something complex but it is a chance to transform society. Artificial intelligence drives 4IR which emphasizes various disciplines in teaching, research and innovation. With human sophistication and wisdom, the gap between humanity and social science and science and technology can be diminished. The 4th Industrial Revolution triggers a new phenomenon in the life of a universal human being. University and society collaborations in addressing the real problems of life are very important. Universities and communities need to jointly develop a higher education curriculum to be more relevant. Higher education must take into account the needs of the 4IR to ensure that the academic programs are sustained and relevant. In this regard, the forming, formulation and review of curriculum based on the criteria that are specific and agreed upon is necessary to humanizing 4IR so that physical and moral progress will go hand in hand.

Keywords: Effectiveness, Learning Packages, International Standard

National Movement for Statistical Literacy in Indonesia: An Idea

Muhammad Arif Tiro

Department of Statistics, Universitas Negeri Makassar, 90222, Indonesia, arif_tiro@yahoo.com

Abstract

The national movement of statistical literacy in Indonesia needs to be initiated and implemented. It is important to realize the noble ideals of the Indonesian nation to educate the nation's life. We cannot avoid reading statistical data presentation. Reading newspapers, magazines, and other papers will undoubtedly always find data presentation. Moreover, if we read scientific papers it is very difficult to avoid the presentation of data, both in the form of descriptive statistics and even in the form of inferential statistics. The need for the ability to read and interpret statistical data is not limited to a particular community, but to almost all communities within the nation. Therefore, the idea to promote the national movement of statistical literacy in Indonesia is presented in this conference forum.

Keywords: information literacy, statistical literacy, descriptive statistics, inferential statistics, nation's life

Technological Trajectories and Epistemological Paradigms in Social Science Researches

Dr. Abbas Panakkal

ICD, Nathan Campus, Griffith University, Australia

Abstract

It is very important to analyse how the new technological advancements influenced the academic writing expectations in HDR (Higher Degree Research) level. Embracing technological advancements, new researchers and supervisors drive well beyond the standard methodological manual or stylebook, which were the manifest of research for centuries and one third of the research time was spent to tame various modes and methods. In social science research all the big questions (who, what, why, where) are still existed, but most of them are gently answered by the smart software, which were officially adopted by top listed universities around the world. Technology scientifically reaffirms the elements, which in principle assure original writings and significant contributions to the knowledge and understanding. The EndNote software offers wonderful arena of styles in a single mouse click and enables to transform the whole article to the any international style. There are number of online tutorial aides from focal universities and the thesis can be checked with the help of software whether it is clearly articulated, logically presented with accurate references and sound arguments. Tara Brabazon online materials are examples of bundle of information for current doctoral students and supervisors by Times Higher Education. Academic institutions also offer online resources with instructions and examples of accepted type of research style and techniques. Reflections of evolving novel technologies in the field of Higher Degree Research are well identified and clearly accepted in the current social science research world. The real purpose of adopted technologies are to ease problems of drafting procedures, mode of writing and systems of citations.

This also helps supervisors, internal and external examiners to affirm the authenticity of cited manuscripts, articles, books and implications of different perspectives on how researches were designed, conducted and narrated. The result of this technological advancement and its effective use bring a novice and progressive mode of research and keep an outlook on how technology can be used for the betterment of intellectual, scientific phenomena of social science research. This paper focuses on wonderful tools and platforms developed by timely educationalists that bridges the methodological gap and reconsiders important epistemological questions, which are often overlooked.

Opening Ceremony



Presented by Abbas Panakkal



Parallel Session















